

PATENT CLAIMS

1. Device for needle biopsy with a said syringe cylinder (1), with a said plunger (2) displaceable therein as well as with a said needle means (9),

5 **characterized in that**

the said needle means has a plurality of said puncture needles (9), whose said channels (12) open into the interior of the said cylinder (1), and a said ventilation means (37, 38, 39, 40), by means of which the volume between the said bottom (5) and the said plunger (2) can be temporarily connected to the environment, is provided for the interior of the said syringe cylinder (1).

2. Device for needle biopsy in accordance with claim 1, **characterized in that** it has a said stop means (21, 22), which limits the depth of penetration of the said needles (9) into the body in a defined manner.

3. Device for needle biopsy in accordance with claim 2, **characterized in that** a said spacer (22), which has said holes (23) associated with the said needles (9) and can be pushed over the said needles in order to limit the depth of penetration thereof into the body, is provided at least as a stop means.

4. Device for needle biopsy in accordance with one of the claims 1 through 3, **characterized in that** a said specimen container (20) is associated with each said needle (9) and the said specimen containers are integrated in one said unit (17), which can be temporarily connected with the plurality of said needles to empty the collected specimens into the containers.

5. Device for needle biopsy in accordance with claim 4, **characterized in that** the said specimen container unit (17) can be attached by plugging to the said syringe cylinder (1), wherein a said groove-and-web arrangement (15-19) in the said specimen containers and the said cylinder makes possible the noninterchangeable association of the said individual needles (9) with the said specimen containers (20).

6. Device for needle biopsy in accordance with claim 4 or 5, **characterized in that** a said closing means is associated with the said specimen containers (20).

7. Device for needle biopsy in accordance with claim 6, **characterized in that** the said closing means has a said closure (28) for every individual said specimen container (27).
8. Device for needle biopsy in accordance with claim 7, **characterized in that** the said closures (28) for the said specimen containers (27) are captively connected to these.
9. Device for needle biopsy in accordance with one of the claims 1 through 8, **characterized in that** a said common protective sleeve (14), which can be attached by plugging to the said syringe cylinder (1) over the needles, is provided for all said needles (9).
10. Device for needle biopsy in accordance with one of the claims 1 through 9, **characterized in that** a said filter means (13) is arranged in the path between the opening of the said channels (12) into the tip of the said needles (9) and the interior of the said syringe cylinder (1).
11. Device for needle biopsy in accordance with claim 10, **characterized in that** the said filter means comprises said individual filter inserts (13) in the syringe-side end area of the said needles (9).
12. Device in accordance with one of the claims 1 through 11, **characterized in that** the said ventilation means is formed by at least one said overflow channel (37), which is formed at a said distance (c) from the said bottom (5) of the syringe in the said inner wall (1i) of the said cylinder (1), wherein the said length (l) of the said channel in the direction of the said cylinder axis (a) makes it possible that the volume between the said bottom (5) and the said plunger (2) can be temporarily connected with the interior of the cylinder that is located above the said plunger via the said, at least one overflow channel.
13. Device in accordance with one of the claims 1 through 12, **characterized in that** the said ventilation means is formed by at least one said vent hole (38), which passes through the said wall of the said cylinder (1) and is located at a said distance (c') from the said bottom (5) thereof.
14. Device in accordance with one of the claims 1 through 13, **characterized in that** a said vent hole (39), which is closed during use by means of a said

closing piece (40), which can, however, be actuated manually in the sense of a temporary release of the said hole, is provided in the said cylinder (1).

15. Device in accordance with one of the claims 1 through 14, **characterized in that** a said vent hole (42), which is closed during use but can be opened in the sense of temporarily releasing the said hole, is provided in the said plunger (2).
16. Device in accordance with one of the claims 1 through 15, **characterized in that** a said indicator projection (41), which projects from the said inner wall (1i) of the said cylinder and can be overcome by the said plunger (2), is provided at a said distance (e) from the said bottom (5) of the said cylinder (1).
17. Device in accordance with one of the claims 1 through 16, **characterized in that** at least some of the said puncture needles (9) of the said needle means have different lengths.